

AMENDMENTS TO THE CLAIMS

Pursuant to 37 C.F.R. § 1.121 the following listing of claims will replace all prior versions, and listings, of claims in the application.

1. (Currently Amended) A method for facilitating network communications from one or more independent execution threads ~~by a dedicated worker thread~~, comprising the steps of:
 - storing a request object by an independent execution thread in a data structure, the request object describing a request for a network operation and having state information;
 - retrieving the request object from the data structure by a dedicated worker thread, the dedicated worker thread configured to process the network operation described by the request object;
 - modifying the request object by the dedicated worker thread to indicate a change of state;
 - sending a non-blocking function call from the dedicated worker thread to a networking module;
 - sending the request object from the dedicated worker thread to the networking module; and
 - executing the non-blocking function call.
2. (Original) The method of claim 1 further comprising the step of storing a notification of completion in the data structure by the networking module, wherein the notification of completion corresponds to the request object.
3. (Currently Amended) The method of claim 2 further including the step of retrieving a notification of completion by the dedicated worker thread from the data structure.
4. (Currently Amended) The method of claim 3 further comprising the steps of:
 - retrieving the request object corresponding to the notification of completion by the dedicated worker thread;

determining by the dedicated worker thread whether the request described in the request object is complete; and

upon determination that the request is complete, sending a message from the dedicated worker thread to [[an]] the associated execution thread indicating that the request is complete.

5. (Currently Amended) The method of claim 3 further comprising the steps of:
retrieving the request object corresponding to the notification of completion by the worker thread;
determining by the dedicated worker thread whether the request described in the request object is complete; and
upon determination that the request is not complete, sending a second non-blocking function call from the dedicated worker thread to the networking module.
6. (Original) The method of claim 1 wherein the request object further includes information identifying the execution thread.
7. (Original) The method of claim 1 wherein the data structure is a queue.
8. (Currently Amended) A computer implemented system for facilitating network communications from one or more independent execution threads ~~using a networking module able to execute non-blocking networking function calls~~, comprising:
a computer having a processor, a memory device, and a network device; and
a computer-readable medium encoded with a computer program, the computer program comprising:
a network module configured to execute non-blocking networking function calls through the network device;
~~a data structure;~~

~~one or more request objects stored in the data structure, the request objects~~
~~storing comprising:~~ information describing a request for a network operation[[:]] and
state information;
a data structure configured to store request objects;
one or more execution threads, each execution thread configured to insert
request objects into the data structure; and
a worker thread ~~connected to the data structure and to the networking module~~
and configured to retrieve a request object from the data structure, modify the state of
the request object and send a non-blocking function call to the networking module.

9. (Original) The system of claim 8, wherein the data structure is a queue.
10. (Original) The system of claim 8, wherein the worker thread is further configured to send the request object to the networking module.
11. (Original) The system of claim 8, wherein the data structure is further configured to receive a notification of completion from the networking module and store the notification of completion.
12. (Currently Amended) A computer implemented system for testing a server comprising:
a computer having a processor, a memory device, and a network device; and
a computer-readable medium encoded with a computer program, the computer
program comprising:
~~one or more virtual user threads, each virtual user thread being configured to~~
~~simulate a computer that is using the server;~~
a networking module connected to the server over a computer network
through the network device;
one or more request objects, the request objects ~~storing comprising:~~
information describing a request for a network operation[[:]] and state information;

a data structure ~~connected to the virtual user threads and configured to enable the virtual user threads to~~ store request objects therein;

one or more virtual user threads, each virtual user thread simulating a computer that is communicating with the server and configured to insert request objects into the data structure;

a worker thread ~~connected to the data structure, and to the networking module and configured to~~ configured to retrieve a request object from the data structure, modify the state of the request object and send a non-blocking function call to the networking module.

13. (Original) The system of claim 12, wherein the data structure is a queue.
14. (Currently Amended) The system of claim 12, wherein the networking module is configured to store a notification of completion in the data structure, the notification of completion being associated with ~~[[the]]~~ a request object.
15. (Currently Amended) The system of claim 14, wherein the worker thread is further configured to retrieve the notification of completion from the data structure and to retrieve the request object ~~from the~~ associated with the notification of completion.
16. (Original) The system of claim 15, wherein the worker thread is further configured to determine whether the request for a network operation is completed, based on the request object and the notification of completion.